



Topic : Vehicle Rental System

Group no : MLB\_03.01\_05

Campus : Malabe / ~~Metro~~ / ~~Matara~~ / ~~Kandy~~ / ~~Kurunegala~~ / ~~Kandy~~ / ~~Jaffna~~

Submission Date:

We declare that this is our own work, and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

Registration No	Name	Contact Number
IT21021916	P. D. R. L. Panditharathne	0776455297
IT21024368	P.V. Thushan	0772940951
IT21028878	D.A.M.N. Kulasekara	0773318219
IT21032288	D.D.H.I Saparamadu	0705947815
IT21034404	P.G.I. Nipun	0704003162

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Object Oriented Concepts– IT1050 – Assignment 2

B.Sc. (Hons) in Information Technology

## Exercise 2

- 1) Draw CRC cards for the classes you have identified in Exercise 1. Identify the Responsibilities and Collaborations of each class. You can further refine your classes by analyzing the requirements further.

<b>Class name:</b> Guest	
<b>Responsibilities</b>	<b>Collaborations</b>
Register to the system	

<b>Class name:</b> Vehicle	
<b>Responsibilities</b>	<b>Collaborations</b>
Add vehicle	
Delete vehicle	
Update vehicle	
Display vehicle	

<b>Class name:</b> Driver	
<b>Responsibilities</b>	<b>Collaborations</b>
Register to the system	
View registration details	
Update registration details	

<b>Class name:</b> Customer	
<b>Responsibilities</b>	<b>Collaborations</b>
Login to the system	
View registration details	
Update registration details	

<b>Class name:</b> Reservation	
<b>Responsibilities</b>	<b>Collaborations</b>
Add reservation	
Validate reservations	Vehicle
Cancel reservation	

<b>Class name:</b> Payment	
<b>Responsibilities</b>	<b>Collaborations</b>
Get payment details	
Validate payment details	
Calculate payment	Reservation, Vehicle, Customer

<b>Class name:</b> Report	
<b>Responsibilities</b>	<b>Collaborations</b>
List of rented vehicles	Vehicle
List of Customers	Customer
List of Returned vehicles	Vehicle

<b>Class name:</b> Feedback	
<b>Responsibilities</b>	<b>Collaborations</b>
Store feedback	
View feedback	

### Exercise 3

Draw the class diagram for the classes you have identified in your scenario. You need to use proper UML notations to draw the class diagram. Show the necessary relationships among classes using UML notations. Include the attributes and the methods in the classes.

